

Claims

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1. An interlocking modular block system for mortarless wall assembly in which a plurality of blocks are laid up in courses in a staggered relationship wherein three different block configurations are provided, stretcher and corner blocks having lengths at least one and a half times the width, and half block having the same width and a length up to half the length of stretcher and corner blocks, said blocks comprising:

5 a pair of spaced, parallel, upright sidewalls having flat top and bottom surfaces, said sidewalls having block-interlocking means;

10 a first transverse end wall extending between said sidewalls spaced from a second end of said blocks; and

a second transverse end wall extending between said sidewalls spaced from a second end of said blocks.

2. An interlocking modular block system for mortarless wall assembly in which a plurality of blocks are laid up in courses in a staggered relationship according to claim 1 wherein the stretcher block comprises:

15 a pair of spaced, parallel, upright sidewalls (1, 2) having flat top and bottom surfaces, said sidewalls having block-interlocking means (3, 4, 5, 6) on opposed ends thereof;

20 a first transverse, protruding end wall (7) extending between said sidewalls at a first end of said block; and

a second transverse, protruding end wall (8) extending between said sidewalls spaced from a second end of said block.

3. An interlocking modular block system for mortarless wall assembly in which a plurality of blocks are laid up in courses in a staggered relationship according to claim 1 wherein the corner block comprises:

25 a pair of spaced, parallel, upright sidewalls (9, 10) having flat top and bottom surfaces, said sidewalls having block-interlocking means (11, 12, 13, 14) on opposed ends thereof;

30 a first transverse end wall (15) extending between said sidewalls at a first end of said block;

a second transverse end wall (16) extending between said sidewalls spaced from a second end of said block;

a transverse upright support web (17) spans said sidewalls, integral and defining a cavity for receiving cementitious material therein; and

protrusions (18) on the inside of sidewalls, extending from a base substantially coplanar with said sidewall bottom surfaces and having tips extending above said sidewall top surfaces configured to interlock with a block in a next succeeding course.

4. An interlocking modular block system for mortarless wall assembly in which a plurality of blocks are laid up in courses in a staggered relationship according to claim 1 wherein the half block comprises:

10 a pair of spaced, parallel, upright sidewalls (19, 20) having flat top and bottom surfaces, said sidewalls having block-interlocking means (21, 22);

a first transverse end wall (23) extending between said sidewalls at a first end of said block;

15 a second transverse end wall (24) extending between said sidewalls spaced from a second end of said block; and

a protrusion (25) on the inside of said sidewalls, extending from a base substantially coplanar with said sidewall bottom surfaces and having a tip extending above said sidewall top surfaces configured to interlock with a block in a next succeeding course.

20 5. The interlocking modular block system for mortarless wall assembly according to any one of claims 1, 2, 3 or 4 wherein the block-interlocking means comprises male and female interlocking means.

25 Sbc' 6. The interlocking modular block system for mortarless wall assembly according to claim 5 wherein the male and female interlocking means provide self-alignment features to the block system for mortarless wall assembly.

30 Jp & 7. The interlocking modular block system for mortarless wall assembly according to any one of claims 1, 2, 3 or 4 wherein the blocks provide void space to house stability and stiffening means in both horizontal and vertical directions.

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8. The interlocking modular block system for mortarless wall assembly according to any one of claims 1, 2, 3 or 4 wherein the blocks provide for the construction of door and window openings.

5 9. The interlocking modular block system for mortarless wall assembly according to any one of claims 1, 2, 3 or 4 wherein the blocks may be used to house lintels without requiring the use of form work.

10. The interlocking modular block system for mortarless wall assembly according to any one of claims 1, 2, 3 or 4 wherein the blocks provide for the construction of load and non-load bearing walls.

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